

Arg 95	Thr	Asn	Ala	Pro	Gly 100	Lys	Asp	Phe	Gln	Gly 105	Ile	Ser	Ala	Ala	Phe 110	
tca Ser	act Thr	gag Glu	aat Asn	ggc Gly 115	ttc Phe	cat His	tct Ser	gtt Val	ggc Gly 120	cac His	gag Glu	ctg Leu	gca Ala	gat Asp 125	aac Asn	625
cac His	atc Ile	acc Thr	tcc Ser 130	aga Arg	gac Asp	tgc Cys	aac Asn	gga Gly 135	cac His	ctt Leu	ctc Leu	aac Asn	tgc Cys 140	tac Tyr	ggg Gly	673
agg Arg	aat Asn	gag Glu 145	agc Ser	att Ile	gcc Ala	tcc Ser	acc Thr 150	cca Pro	ccg Pro	ggc Gly	gaa Glu	gac Asp 155	cgc Arg	aag Lys	agc Ser	721
ccc Pro	cga Arg 160	gtg Val	ctc Leu	atc Ile	aaa Lys 165	acg Thr	ctg Leu	ggg Gly	aag Lys	ccg Pro	gat Asp 170	ggg Gly	tgt Cys	tta Leu	agg Arg	769
gtc Val 175	gag Glu	ttc Phe	cac His	aat Asn	ggg Gly 180	ggc Gly	aac Asn	ccc Pro	agc Ser	aaa Lys 185	gtg Val	cct Pro	gca Ala	gag Glu	gac Asp 190	817
tgc Cys	agt Ser	gag Glu	ccg Pro	gtg Val 195	cag Gln	ctg Leu	ctg Leu	agg Arg 200	tac Tyr	tca Ser	cct Pro	acc Thr	tta Leu 205	gca Ala	tcg Ser	865
gaa Glu	acc Thr	tcc Ser 210	cct Pro	gtg Val	cct Pro	gaa Glu	gcc Ala 215	agg Arg	agg Arg	ggg Gly	tcc Ser	agc Ser	gcc Ala 220	gat Asp	tcc Ser	913
ctg Leu	ccc Pro 225	agc Ser	cat His	cgc Arg	ccc Pro	tct Ser	ccc Pro 230	acg Thr	gac Asp	tct Ser	cgc Arg	ctg Leu 235	cgg Arg	tcc Ser	agc Ser	961
aaa Lys 240	ggc Gly	agc Ser	tcc Ser	ctg Leu	agt Ser 245	tct Ser	gag Glu	tca Ser	tcc Ser	tgg Trp 250	tac Tyr	gac Asp	tcc Ser	cct Pro	tgg Trp	1009
ggc Gly 255	aat Asn	gct Ala	gga Gly	gag Glu 260	ctg Leu	agc Ser	gag Glu	gct Ala	gag Glu 265	ggc Gly	tcc Ser	ttc Phe	ctg Leu	gcc Ala 270	ccc Pro	1057
ggc Gly	atg Met	cct Pro	gac Asp 275	ccc Pro	agt Ser	ctc Leu	cat His	gcc Ala 280	agc Ser	ttc Phe	cca Pro	cct Pro	ggc Gly 285	gat Asp	gcc Ala	1105
aaa Lys	aag Lys	cct Pro 290	ttc Phe	aac Asn	caa Gln	agc Ser	tct Ser	tcc Ser 295	ctc Leu	tcc Ser	tcc Ser	ctc Leu	cgg Arg 300	gaa Glu	ctg Leu	1153
tac Tyr	aaa Lys 305	gat Asp	gcc Ala	aac Asn	ctg Leu	ggg Gly 310	agc Ser	ctc Leu	tcc Ser	ccc Pro	tca Ser 315	ggg Gly	atc Ile	cgc Arg	ctt Leu	1201
tct Ser	gat Asp	gaa Glu	tac Tyr	atg Met	ggc Gly	acg Thr	cat His	gcc Ala	agc Ser	ctg Leu	agc Ser	aac Asn	cgt Arg	gtc Val	tct Ser	1249

320				325				330								
ttt Phe 335	gct Ala	tcc Ser	gac Asp	att Ile	gat Asp 340	gtg Val	ccc Pro	tcc Ser	aga Arg	gtg Val 345	gca Ala	cac His	ggg Gly	gac Asp	ccc Pro 350	1297
atc Ile	cag Gln	tac Tyr	agt Ser 355	tcc Ser 355	ttc Phe	act Thr	ctc Leu	ccc Pro	tgt Cys 360	cgg Arg	aag Lys	ccc Pro	aaa Lys	gcc Ala 365	ttt Phe	1345
gtt Val	gag Glu	gat Asp	act Thr 370	gcg Ala	aag Lys	aag Lys	gac Asp 375	tcc Ser 375	ctc Leu	aaa Lys	gcc Ala	agg Arg 380	atg Met	cga Arg	cgg Arg	1393
atc Ile	agt Ser	gac Asp 385	tgg Trp	acg Thr	gga Gly	agc Ser	ctc Leu 390	tca Ser	agg Arg	aag Lys	aaa Lys	agg Arg 395	aaa Lys	ctc Leu	cag Gln	1441
gag Glu 400	ccg Pro	agg Arg	tcc Ser	aag Lys	gag Glu	ggc Gly 405	agt Ser	gac Asp	tac Tyr	ttt Phe	gac Asp 410	agt Ser	cgc Arg	tct Ser	gat Asp	1489
gga Gly 415	ctg Leu	aat Asn	aca Thr	gat Asp 420	gtg Val	cag Gln	gga Gly	tcc Ser	tcc Ser	cag Gln 425	gca Ala	tct Ser	gct Ala	ttt Phe 430	ctg Leu	1537
tgg Trp	tca Ser	ggg Gly	ggc Gly 435	tct Ser	act Thr	cag Gln	atc Ile	ctg Leu 440	tct Ser	cag Gln	aga Arg	agt Ser	gaa Glu 445	tcc Ser	aca Thr	1585
cat His	gcg Ala	att Ile	ggc Gly 450	agc Ser	gat Asp	ccc Pro	ctc Leu	cgg Arg 455	cag Gln	aac Asn	att Ile	tat Tyr	gag Glu 460	aat Asn	ttc Phe	1633
atg Met	cga Arg	gag Glu 465	ttg Leu	gaa Glu	atg Met	agc Ser	agg Arg 470	acc Thr	aac Asn	act Thr	gag Glu 475	aac Asn	ata Ile	gaa Glu	aca Thr	1681
tct Ser 480	aca Thr	gaa Glu	acc Thr	gcc Ala	gag Glu 485	tcc Ser	agc Ser	agc Ser	gag Glu	tca Ser	ctc Leu 490	agc Ser	tct Ser	ctg Leu	gaa Glu	1729
cag Gln 495	ctg Leu	gat Asp	ctg Leu	ctc Leu	ttc Phe 500	gag Glu	aag Lys	gaa Glu	cag Gln	ggg Gly 505	gtg Val	gtc Val	cgg Arg	agg Arg	gcc Ala 510	1777
ggg Gly	tgg Trp	ctc Leu	ttc Phe 515	ttc Phe 515	aag Lys	ccc Pro	ctg Leu	gtc Val	act Thr 520	gtg Val	cag Gln	aag Lys	gaa Glu 525	agg Arg	aag Lys	1825
ctt Leu	gag Glu	ctg Leu	gtg Val 530	gca Ala	cga Arg	agg Arg	aaa Lys	tgg Trp 535	aaa Lys	cag Gln	tac Tyr	tgg Trp	gta Val 540	acg Thr	ctg Leu	1873
aaa Lys	gga Gly	tgc Cys 545	acg Thr	ctg Leu	ctg Leu	ttt Phe 550	tat Tyr	gag Glu	acc Thr	tat Tyr	ggg Gly 555	aag Lys	aat Asn	tcc Ser	atg Met	1921

1969
2017
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2113
2161
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2257
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cct tct ata act cag gtc gat gaa ctt ctg cat ata tat ggt tca aca	2641
Pro Ser Ile Thr Gln Val Asp Glu Leu Leu His Ile Tyr Gly Ser Thr	
785 790 795	
gtg gac ggt gtt ccc cga gac aat gca tgg gaa atc cag act tat gtt	2689
Val Asp Gly Val Pro Arg Asp Asn Ala Trp Glu Ile Gln Thr Tyr Val	
800 805 810	
cac ttt cag gac aat cac gga gtt act gta ggg atc aag cca gag cac	2737
His Phe Gln Asp Asn His Gly Val Thr Val Gly Ile Lys Pro Glu His	
815 820 825 830	
aga gta gaa gat att ttg act ttg gca tgc aag atg agg cag ttg gaa	2785
Arg Val Glu Asp Ile Leu Thr Leu Ala Cys Lys Met Arg Gln Leu Glu	
835 840 845	
ccc agc cat tat ggc cta cag ctt cga aaa tta gta gat gac aat gtt	2833
Pro Ser His Tyr Gly Leu Gln Leu Arg Lys Leu Val Asp Asp Asn Val	
850 855 860	
gag tat tgc atc cct gca cca tat gaa tat atg caa caa cag gtt tat	2881
Glu Tyr Cys Ile Pro Ala Pro Tyr Glu Tyr Met Gln Gln Gln Val Tyr	
865 870 875	
gat gaa ata gaa gtc ttt cca cta aat gtt tat gat gtg cag ctc acg	2929
Asp Glu Ile Glu Val Phe Pro Leu Asn Val Tyr Asp Val Gln Leu Thr	
880 885 890	
aag act ggg agt gtg tgt gac ttt ggg ttt gca gtt aca gcg cag gtg	2977
Lys Thr Gly Ser Val Cys Asp Phe Gly Phe Ala Val Thr Ala Gln Val	
895 900 905 910	
gat gag cgt cag cat ctc agc cgg ata ttt ata agc gac gtt ctt ccc	3025
Asp Glu Arg Gln His Leu Ser Arg Ile Phe Ile Ser Asp Val Leu Pro	
915 920 925	
gat ggc ctg gcg tat ggg gaa ggg ctg aga aag ggc aat gag atc atg	3073
Asp Gly Leu Ala Tyr Gly Glu Gly Leu Arg Lys Gly Asn Glu Ile Met	
930 935 940	
acc tta aat ggg gaa gct gtg tct gat ctt gac ctt aag cag atg gag	3121
Thr Leu Asn Gly Glu Ala Val Ser Asp Leu Asp Leu Lys Gln Met Glu	
945 950 955	
gcc ctg ttt tct gag aag agc gtc gga ctc act ctg att gcc cgg cct	3169
Ala Leu Phe Ser Glu Lys Ser Val Gly Leu Thr Leu Ile Ala Arg Pro	
960 965 970	
ccg gac aca aaa gca acc ctg tgt aca tcc tgg tca gac agt gac ctg	3217
Pro Asp Thr Lys Ala Thr Leu Cys Thr Ser Trp Ser Asp Ser Asp Leu	
975 980 985 990	
ttc tcc agg gac cag aag agt ctg ctg ccc cct cct aac cag tcc caa	3265
Phe Ser Arg Asp Gln Lys Ser Leu Leu Pro Pro Pro Asn Gln Ser Gln	
995 1000 1005	
ctg ctg gag gaa ttc ctg gat aac ttt aaa aag aat aca gcc aat gat	3313

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Leu	Leu	Glu	Glu	Phe	Leu	Asp	Asn	Phe	Lys	Lys	Asn	Thr	Ala	Asn	Asp		
			1010						1015			1020					
ttc	agc	aac	gtc	cct	gat	atc	aca	aca	ggt	ctg	aaa	agg	agt	cag	aca	3361	
Phe	Ser	Asn	Val	Pro	Asp	Ile	Thr	Thr	Gly	Leu	Lys	Arg	Ser	Gln	Thr		
			1025						1030			1035					
gat	ggc	act	ctg	gat	cag	gtt	tcc	cac	agg	gag	aaa	atg	gag	cag	aca	3409	
Asp	Gly	Thr	Leu	Asp	Gln	Val	Ser	His	Arg	Glu	Lys	Met	Glu	Gln	Thr		
			1040						1045			1050					
ttc	agg	agt	gct	gag	cag	atc	act	gca	ctg	tgc	agg	agt	ttt	aac	gac	3457	
Phe	Arg	Ser	Ala	Glu	Gln	Ile	Thr	Ala	Leu	Cys	Arg	Ser	Phe	Asn	Asp		
1055						1060						1065			1070		
agt	cag	gcc	aac	ggc	atg	gaa	gga	ccg	cgg	gag	aat	cag	gat	cct	cct	3505	
Ser	Gln	Ala	Asn	Gly	Met	Glu	Gly	Pro	Arg	Glu	Asn	Gln	Asp	Pro	Pro		
			1075						1080						1085		
ccg	agg	cct	ctg	gcc	cgc	cac	ctg	tct	gat	gca	gac	cgc	ctc	cgc	aaa	3553	
Pro	Arg	Pro	Leu	Ala	Arg	His	Leu	Ser	Asp	Ala	Asp	Arg	Leu	Arg	Lys		
			1090						1095						1100		
gtc	atc	cag	gag	ctt	gtg	gac	aca	gag	aag	tcc	tac	gtg	aag	gat	ttg	3601	
Val	Ile	Gln	Glu	Leu	Val	Asp	Thr	Glu	Lys	Ser	Tyr	Val	Lys	Asp	Leu		
			1105						1110						1115		
agc	tgc	ctc	ttt	gaa	tta	tac	ttg	gag	cca	ctt	cag	aat	gag	acc	ttt	3649	
Ser	Cys	Leu	Phe	Glu	Leu	Tyr	Leu	Glu	Pro	Leu	Gln	Asn	Glu	Thr	Phe		
			1120						1125						1130		
ctt	acc	caa	gat	gag	atg	gag	tca	ctt	ttt	gga	agt	ttg	cca	gag	atg	3697	
Leu	Thr	Gln	Asp	Glu	Met	Glu	Ser	Leu	Phe	Gly	Ser	Leu	Pro	Glu	Met		
1135						1140						1145			1150		
ctt	gag	ttt	cag	aag	gtg	ttt	ctg	gag	acc	ctg	gag	gat	ggg	att	tca	3745	
Leu	Glu	Phe	Gln	Lys	Val	Phe	Leu	Glu	Thr	Leu	Glu	Asp	Gly	Ile	Ser		
			1155						1160						1165		
gca	tca	tct	gac	ttt	aac	acc	cta	gaa	acc	ccc	tca	cag	ttt	aga	aaa	3793	
Ala	Ser	Ser	Asp	Phe	Asn	Thr	Leu	Glu	Thr	Pro	Ser	Gln	Phe	Arg	Lys		
			1170						1175						1180		
tta	ctg	ttt	tcc	ctt	gga	ggc	tct	ttc	ctt	tat	tac	gcg	gac	cac	ttt	3841	
Leu	Leu	Phe	Ser	Leu	Gly	Gly	Ser	Phe	Leu	Tyr	Tyr	Ala	Asp	His	Phe		
			1185						1190						1195		
aaa	ctg	tac	agt	gga	ttc	tgt	gct	aac	cat	atc	aaa	gta	cag	aag	gtt	3889	
Lys	Leu	Tyr	Ser	Gly	Phe	Cys	Ala	Asn	His	Ile	Lys	Val	Gln	Lys	Val		
			1200						1205						1210		
ctg	gag	cga	gct	aaa	act	gac	aaa	gcc	ttc	aag	gct	ttt	ctg	gat	gcc	3937	
Leu	Glu	Arg	Ala	Lys	Thr	Asp	Lys	Ala	Phe	Lys	Ala	Phe	Leu	Asp	Ala		
1215						1220						1225			1230		
cgg	aac	ccc	acc	aag	cag	cat	tcc	tcc	acg	ctg	gag	tcc	tac	ctc	atc	3985	
Arg	Asn	Pro	Thr	Lys	Gln	His	Ser	Ser	Thr	Le							

1235	1240	1245	
aag ccg gtt cag aga gtg ctc aag tac ccg ctg ctg ctc aag gag ctg			4033
Lys Pro Val Gln Arg Val Leu Lys Tyr Pro Leu Leu Leu Lys Glu Leu			
1250	1255	1260	
gtg tcc ctg acg gac cag gag agc gag gag cac tac cac ctg acg gaa			4081
Val Ser Leu Thr Asp Gln Glu Ser Glu Glu His Tyr His Leu Thr Glu			
1265	1270	1275	
gca cta aag gca atg gag aaa gta gcg agc cac atc aat gag atg cag			4129
Ala Leu Lys Ala Met Glu Lys Val Ala Ser His Ile Asn Glu Met Gln			
1280	1285	1290	
aag atc tat gag gat tat ggg acc gtg ttt gac cag cta gta gct gag			4177
Lys Ile Tyr Glu Asp Tyr Gly Thr Val Phe Asp Gln Leu Val Ala Glu			
1295	1300	1305	1310
cag agc gga aca gag aag gag gta aca gaa ctt tcg atg gga gag ctt			4225
Gln Ser Gly Thr Glu Lys Glu Val Thr Glu Leu Ser Met Gly Glu Leu			
1315	1320	1325	
ctg atg cac tct acg gtt tcc tgg ttg aat cca ttt ctg tct cta gga			4273
Leu Met His Ser Thr Val Ser Trp Leu Asn Pro Phe Leu Ser Leu Gly			
1330	1335	1340	
aaa gct aga aag gac ctt gag ctc aca gta ttt gtt ttt aag aga gcc			4321
Lys Ala Arg Lys Asp Leu Glu Leu Thr Val Phe Val Phe Lys Arg Ala			
1345	1350	1355	
gtc ata ctg gtt tat aaa gaa aac tgc aaa ctg aaa aag aaa ttg ccc			4369
Val Ile Leu Val Tyr Lys Glu Asn Cys Lys Leu Lys Lys Lys Leu Pro			
1360	1365	1370	
tcg aat tcc cgg cct gca cac aac tct act gac ttg gac cca ttt aaa			4417
Ser Asn Ser Arg Pro Ala His Asn Ser Thr Asp Leu Asp Pro Phe Lys			
1375	1380	1385	1390
ttc cgc tgg ttg atc ccc atc tcc gcg ctt caa gtc aga ctg ggg aat			4465
Phe Arg Trp Leu Ile Pro Ile Ser Ala Leu Gln Val Arg Leu Gly Asn			
1395	1400	1405	
cca gca ggg aca gaa aat aat tcc ata tgg gaa ctg atc cat acg aag			4513
Pro Ala Gly Thr Glu Asn Asn Ser Ile Trp Glu Leu Ile His Thr Lys			
1410	1415	1420	
tca gaa ata gaa gga cgg cca gaa acc atc ttt cag ttg tgt tgc agt			4561
Ser Glu Ile Glu Gly Arg Pro Glu Thr Ile Phe Gln Leu Cys Cys Ser			
1425	1430	1435	
gac agt gaa agc aaa acc aac att gtt aag gtg att cgt tct att ctg			4609
Asp Ser Glu Ser Lys Thr Asn Ile Val Lys Val Ile Arg Ser Ile Leu			
1440	1445	1450	
agg gaa aac ttc agg cgt cac ata aag tgt gaa tta cca ctg gag aaa			4657
Arg Glu Asn Phe Arg Arg His Ile Lys Cys Glu Leu Pro Leu Glu Lys			
1455	1460	1465	1470

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4081
4129
4177
4225
4273
4321
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4417
4465
4513
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4609
4657

acg tgt aag gat cgc ctg gta cct ctt aag aac cga gtt cct gtt tcg 4705
 Thr Cys Lys Asp Arg Leu Val Pro Leu Lys Asn Arg Val Pro Val Ser
 1475 1480 1485

gcc aaa tta gct tca tcc agg tct tta aaa gtc ctg aag aat tcc tcc 4753
 Ala Lys Leu Ala Ser Ser Arg Ser Leu Lys Val Leu Lys Asn Ser Ser
 1490 1495 1500

agc aac gag tgg acc ggt gag act ggc aag gga acc ttg ctg gac tct 4801
 Ser Asn Glu Trp Thr Gly Glu Thr Gly Lys Gly Thr Leu Leu Asp Ser
 1505 1510 1515

gac gag ggc agc ttg agc agc ggc acc cag agc agc ggc tgc ccc acg 4849
 Asp Glu Gly Ser Leu Ser Ser Gly Thr Gln Ser Ser Gly Cys Pro Thr
 1520 1525 1530

gct gag ggc agg cag gac tcc aag agc act tct ccc ggg aaa tac cca 4897
 Ala Glu Gly Arg Gln Asp Ser Lys Ser Thr Ser Pro Gly Lys Tyr Pro
 1535 1540 1545 1550

cac ccc ggc ttg gca gat ttt gcc gac aat ctc atc aaa gag agt gac 4945
 His Pro Gly Leu Ala Asp Phe Ala Asp Asn Leu Ile Lys Glu Ser Asp
 1555 1560 1565

atc ctg agc gat gaa gat gat gac cac cgt cag act gtg aag cag ggc 4993
 Ile Leu Ser Asp Glu Asp Asp Asp His Arg Gln Thr Val Lys Gln Gly
 1570 1575 1580

agc cct act aaa gac atc gaa att cag ttc cag aga ctg agg att tcc 5041
 Ser Pro Thr Lys Asp Ile Glu Ile Gln Phe Gln Arg Leu Arg Ile Ser
 1585 1590 1595

gag gac cca gac gtt cac ccc gag gct gag cag cag cct ggc ccg gag 5089
 Glu Asp Pro Asp Val His Pro Glu Ala Glu Gln Gln Pro Gly Pro Glu
 1600 1605 1610

tcg ggt gag ggt cag aaa gga gga gag cag ccc aaa ctg gtc cgg ggg 5137
 Ser Gly Glu Gly Gln Lys Gly Gly Glu Gln Pro Lys Leu Val Arg Gly
 1615 1620 1625 1630

cac ttc tgc ccc att aaa cga aaa gcc aac agc acc aag agg gac aga 5185
 His Phe Cys Pro Ile Lys Arg Lys Ala Asn Ser Thr Lys Arg Asp Arg
 1635 1640 1645

gga act ttg ctc aag gcg cag atc cgt cac cag tcc ctt gac agt cag 5233
 Gly Thr Leu Leu Lys Ala Gln Ile Arg His Gln Ser Leu Asp Ser Gln
 1650 1655 1660

tct gaa aat gcc acc atc gac cta aat tct gtt cta gag cga gaa ttc 5281
 Ser Glu Asn Ala Thr Ile Asp Leu Asn Ser Val Leu Glu Arg Glu Phe
 1665 1670 1675

agt gtc cag agt tta aca tct gtt gtc agt gag gag tgt ttt tat gaa 5329
 Ser Val Gln Ser Leu Thr Ser Val Val Ser Glu Glu Cys Phe Tyr Glu
 1680 1685 1690

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		355					360					365				
Asp	Thr	Ala	Lys	Lys	Asp	Ser	Leu	Lys	Ala	Arg	Met	Arg	Arg	Ile	Ser	
	370						375				380					
Asp	Trp	Thr	Gly	Ser	Leu	Ser	Arg	Lys	Lys	Arg	Lys	Leu	Gln	Glu	Pro	
385					390					395					400	
Arg	Ser	Lys	Glu	Gly	Ser	Asp	Tyr	Phe	Asp	Ser	Arg	Ser	Asp	Gly	Leu	
				405					410					415		
Asn	Thr	Asp	Val	Gln	Gly	Ser	Ser	Gln	Ala	Ser	Ala	Phe	Leu	Trp	Ser	
			420					425					430			
Gly	Gly	Ser	Thr	Gln	Ile	Leu	Ser	Gln	Arg	Ser	Glu	Ser	Thr	His	Ala	
		435					440					445				
Ile	Gly	Ser	Asp	Pro	Leu	Arg	Gln	Asn	Ile	Tyr	Glu	Asn	Phe	Met	Arg	
	450					455					460					
Glu	Leu	Glu	Met	Ser	Arg	Thr	Asn	Thr	Glu	Asn	Ile	Glu	Thr	Ser	Thr	
465					470					475					480	
Glu	Thr	Ala	Glu	Ser	Ser	Ser	Glu	Ser	Leu	Ser	Ser	Leu	Glu	Gln	Leu	
				485					490					495		
Asp	Leu	Leu	Phe	Glu	Lys	Glu	Gln	Gly	Val	Val	Arg	Arg	Ala	Gly	Trp	
			500					505					510			
Leu	Phe	Phe	Lys	Pro	Leu	Val	Thr	Val	Gln	Lys	Glu	Arg	Lys	Leu	Glu	
		515					520					525				
Leu	Val	Ala	Arg	Arg	Lys	Trp	Lys	Gln	Tyr	Trp	Val	Thr	Leu	Lys	Gly	
	530					535					540					
Cys	Thr	Leu	Leu	Phe	Tyr	Glu	Thr	Tyr	Gly	Lys	Asn	Ser	Met	Asp	Gln	
545					550					555					560	
Ser	Ser	Ala	Pro	Arg	Cys	Ala	Leu	Phe	Ala	Glu	Asp	Ser	Ile	Val	Gln	
				565					570					575		
Ser	Val	Pro	Glu	His	Pro	Lys	Lys	Glu	Asn	Val	Phe	Cys	Leu	Ser	Asn	
			580					585					590			
Ser	Phe	Gly	Asp	Val	Tyr	Leu	Phe	Gln	Ala	Thr	Ser	Gln	Thr	Asp	Leu	
		595					600					605				
Glu	Asn	Trp	Val	Thr	Ala	Val	His	Ser	Ala	Cys	Ala	Ser	Leu	Phe	Ala	
	610					615					620					
Lys	Lys	His	Gly	Lys	Glu	Asp	Thr	Leu	Arg	Leu	Leu	Lys	Asn	Gln	Thr	
625					630					635					640	
Lys	Asn	Leu	Leu	Gln	Lys	Ile	Asp	Met	Asp	Ser	Lys	Met	Lys	Lys	Met	
				645					650					655		
Ala	Glu	Leu	Gln	Leu	Ser	Val	Val	Ser	Asp	Pro	Lys	Asn	Arg	Lys	Ala	
			660					665					670			
Ile	Glu	Asn	Gln	Ile	Gln	Gln	Trp	Glu	Gln	Asn	Leu	Glu	Lys	Phe	His	
		675					680					685				
Met	Asp	Leu	Phe	Arg	Met	Arg	Cys	Tyr	Leu	Ala	Ser	Leu	Gln	Gly	Gly	
	690					695					700					
Glu	Leu	Pro	Asn	Pro	Lys	Ser	Leu	Leu	Ala	Ala	Ala	Ser	Arg	Pro	Ser	
705					710		</									

Gln	Asp	Asn	His	Gly	Val	Thr	Val	Gly	Ile	Lys	Pro	Glu	His	Arg	Val
			820					825					830		
Glu	Asp	Ile	Leu	Thr	Leu	Ala	Cys	Lys	Met	Arg	Gln	Leu	Glu	Pro	Ser
		835					840					845			
His	Tyr	Gly	Leu	Gln	Leu	Arg	Lys	Leu	Val	Asp	Asp	Asn	Val	Glu	Tyr
	850					855				860					
Cys	Ile	Pro	Ala	Pro	Tyr	Glu	Tyr	Met	Gln	Gln	Gln	Val	Tyr	Asp	Glu
865					870				875						880
Ile	Glu	Val	Phe	Pro	Leu	Asn	Val	Tyr	Asp	Val	Gln	Leu	Thr	Lys	Thr
			885					890						895	
Gly	Ser	Val	Cys	Asp	Phe	Gly	Phe	Ala	Val	Thr	Ala	Gln	Val	Asp	Glu
			900					905					910		
Arg	Gln	His	Leu	Ser	Arg	Ile	Phe	Ile	Ser	Asp	Val	Leu	Pro	Asp	Gly
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Arg Tyr Phe Val Leu Phe Asn Asn Val Leu Leu Tyr Tyr Lys Asp Ser
                20                25                30
Lys Lys Lys Pro Lys Gly Ser Ile Pro Leu Ser Gly Cys Gln Val Glu
                35                40                45
Lys Pro Asp Lys Asn Cys Phe Glu Ile Arg Thr Asp Arg Thr Leu Leu
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Leu Gln Ala Glu Ser Glu Glu Arg Lys Glu Trp Val Lys Ala Ile
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Gln Ser Ala Ile Arg

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 Pro Gln Glu Gly Glu Lys Lys Pro Leu Asp Leu Asp Thr Asp Ile Ser
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 20 25 30
 Gly Ser Gly Ala Ala Glu Ala Gly Gly Arg Leu Lys Glu Gly Asp Val
 35 40 45
 Ile Leu Ser Val Asn Gly Gln Asp Val Glu Asn Met Ser His Glu Arg
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 Ala Val Leu Ala Ile Lys Gly Ser Gly Gly Glu Val Thr Leu Thr Val
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 Leu Arg Asp

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 20 25 30

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			20					25					30		
Lys	Arg	Gly	Leu	Asn	Pro	Glu	Ala	Cys	Val	Val	Arg	Leu	Arg	Gly	Asp
		35					40					45			
Pro	Gln	Glu	Gly	Glu	Lys	Lys	Pro	Leu	Asp	Leu	Asn	Gln	Asp	Ile	Ser
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			20					25					30		
Leu	Lys	Val	Gly	Asp	Val	Ile	Leu	Glu	Val	Asn	Gly	Glu	Thr	Ser	Val
		35					40					45			
Glu	Gly	Leu	Thr	His	Glu	Glu	Ala	Val	Asp	Leu	Leu	Lys	Lys	Ala	Gly
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          20             25             30
Lys Pro Lys Gly Ser Ile Pro Leu Ser Gly Cys Ser Val Arg Glu Pro
          35             40             45
Cys Phe Glu Ile Val Thr Asp Arg Thr Leu Leu Leu Gln Ala Glu Ser
  50             55             60
Glu Glu Glu Arg Glu Glu Trp Val Glu Ala Leu Gln Ser Ala Ile Ala
  65             70             75             80
Lys Ala

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